

82 *Astronomer Royal, Occultations of Stars by the Moon*

Occultations of Stars by the Moon and Phenomena of Jupiter's Satellites, observed at the Royal Observatory, Greenwich, from May 1866 to December 1866. By G. B. Airy, Esq., Astronomer Royal.

Occultations of Stars by the Moon.

Day of Observation.	Phenomena.	Moon's Limb.	Mean Solar Time.	Observer.
1866.			h m s	
Sept. 28	75 Tauri, reapp.	Dark	12 41 26.4	E.
	Bradley 619, reapp.	Dark	13 29 29.0	E.
	(a) Aldebaran, reapp.	Dark	16 31 30.0	J. C.
Nov. 16	67 Aquarii, disapp.	Dark	5 16 51.9	E.
20	ξ Arietis, disapp.	Dark	6 57 56.8	E.
27	ο Leonis, disapp.	Bright	11 12 44.4	K.
	ο Leonis, reapp.	Dark	12 9 29.0	K.

(a) The star did not come out with full brilliancy instantaneously ; it was about 0.3 before it fully reappeared. This, however, might have been due to a passing cloud.

Phenomena of Jupiter's Satellites.

Day of Obs.	Satellite.	Phenomenon.	Mean Solar Time.	Observer.
1866.			h m s	
May 23	III.	(a) Occult. reapp. last contact	13 35 53.2	D.
July 9	I.	Eclipse, disappearance	10 56 4.3	P.
10	II.	Transit, ingress, last contact	10 34 44.5	C.
	I.	Transit, egress, bisection	10 35 59.3	C.
	I.	„ „ last contact	10 36 59.1	C.
	II.	„ „ first contact	13 23 3.4	C.
	II.	„ „ bisection	13 25 18.1	C.
	II.	„ „ last contact	13 28 2.6	C.
19	II.	(b) Occult. reapp. bisection	10 7 59.2	J.C.
	II.	„ „ last contact	10 10 28.8	J.C.
Aug. 9	I.	Transit, ingress, bisection	9 40 54.0	E.
	IV.	(c) Eclipse, reappearance	10 25 1.8	E.
	I.	Transit, egress, bisection	12 0 16.1	E.
16	I.	Transit, ingress, first contact	11 24 5.9	H.C.
	I.	„ „ bisection	11 26 35.5	H.C.
18	II.	Transit, ingress, bisection	11 10 53.4	E.

Day of Obs. 1866.	Satellite.	Phenomenon.	Mean Solar Time. h m s	Observer.
Sept. 17	I.	(d) Transit, egress, bisection	9 52 43 ²	J.C.
19	II.	(d) Transit, ingress, first contact	9 56 32 ¹	P.
	II.	„ „ bisection	9 58 46 ⁷	P.
24	I.	(d) Transit, ingress, bisection	9 23 24 ⁷	E.
25	I.	(e) Occult. disapp. last contact	6 42 46 ⁷	J.C.
Oct. 16	II.	Eclipse, reappearance	6 35 7 ⁷	K.
31	III.	Transit, ingress, first contact	6 13 4 ⁷	K.
	III.	„ „ last contact	6 16 34 ¹	K.
Nov. 11	III.	(f) Eclipse, disappearance	5 25 34 ³	S.

(a) Very unsatisfactory; doubtful to two or three minutes.

(b) The sky hazy; *Jupiter* a confused patch of light.

(c) The observation accurate within a few seconds; the N.A. time of reappearance is nearly ten minutes later.

(d) Very unsatisfactory; the planet badly defined.

(e) The observation uncertain to two or three minutes; the image of the planet very faint and ill-defined.

(f) Very uncertain; the planet low and very faint, and the satellite scarcely visible.

The initials S., D., E., C., J. C., K., P., and H. C., are those of Mr. Stone, Mr. Dunkin, Mr. Ellis, Mr. Criswick, Mr. Carpenter, Mr. Kersch-ner, Mr. Plummer, and Mr. H. Carpenter.

The following Errata must be corrected in the Observations of Phenomena printed in the *Monthly Notices*, vol. xxvi. No. 8, page 288:—

Line 1, for 13^h 34^m 30^s·7 read 12^h 34^m 40^s·5.

Line 4, for 12^h 41^m 41^s·9 read 12^h 42^m 41^s·9; and *dele* the word “bi-section.”

Occultations of Stars by the Moon. By C. G. Talmage, Esq.

1866, November 14.

Occultation of 9 Aquarii.

Disappearance = 5^h 8^m 56^s·15 G.M.T.; Time exact, very clear, Moon's dark limb well defined.

Reappearance = 5 46 20⁰⁰ „ Moon's limb boiling violently.

1866, November 20.

Occultation of ξ Arietis.

Disappearance = 6^h 58^m 7^s·50 G.M.T.; Exact; definition excellent.

Reappearance = 7 58 48⁵² „ Good.